

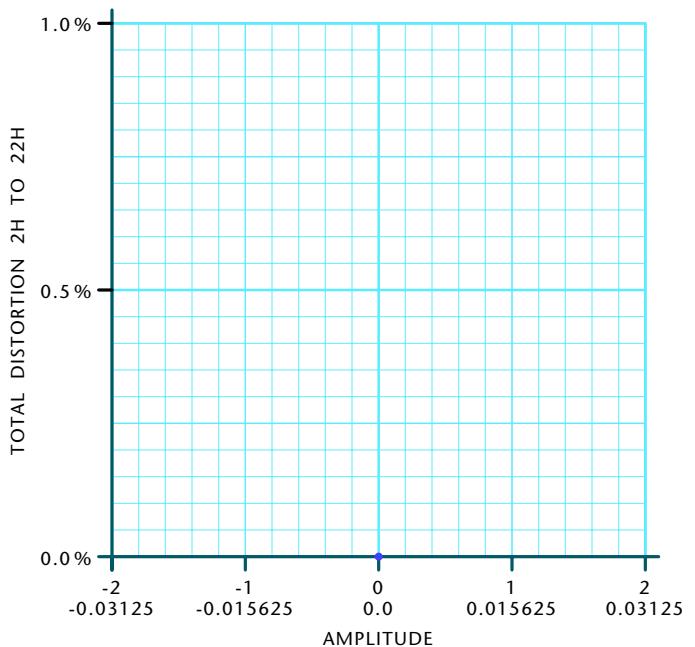
THREE PHASE MAGIC SINEWAVES

768D-24-22-2-00X

SUMMARY: This delta-friendly sequence combines low distortion with reasonable efficiency and has only a maximum of 24 transitions per quarter. Second order filtering is shown.

bits - trans - harms - filt - level

Level: 0 of 64
Bits in word: 768
Bits in quarter: 192
Controlled harmonics: 2 through 22nd
Filter: 2nd order Butterworth, F=2.0
Maximum transitions: 16
Graph max distortion: 1.0%
Report max distortion: 1.0%
Unlikely exclusions: no
Verify zero third: no
Delta friendly: yes



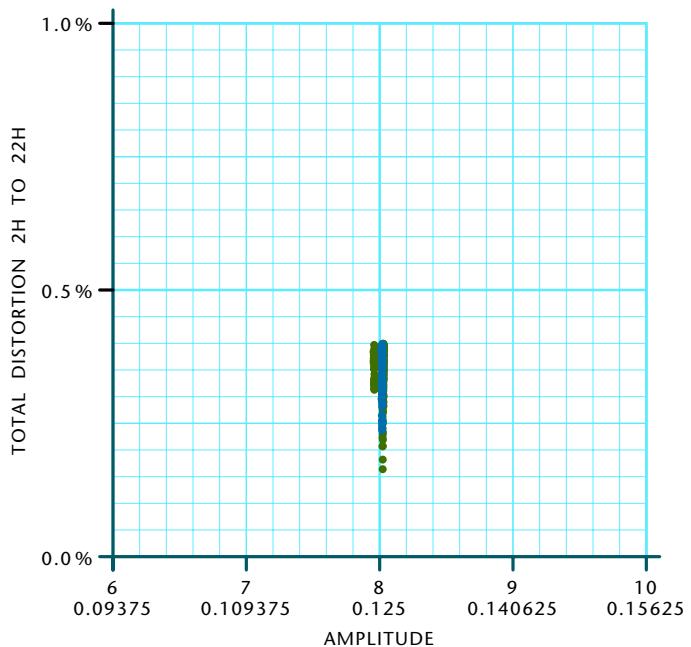
THREE PHASE MAGIC SINEWAVES

768D-24-22-2-08X

SUMMARY: This delta-friendly sequence combines low distortion with reasonable efficiency and has only a maximum of 24 transitions per quarter. Second order filtering is shown.

bits - trans - harms - filt - level

Level: 8 of 64
Bits in word: 768
Bits in quarter: 192
Controlled harmonics: 2 through 10
Filter: 2nd order Butterworth, low pass
Maximum transitions: 24
Graph max distortion: 0.4%
Report max distortion: 0.2%
Unlikely exclusions: yes
Verify zero third: yes
Delta friendly: yes



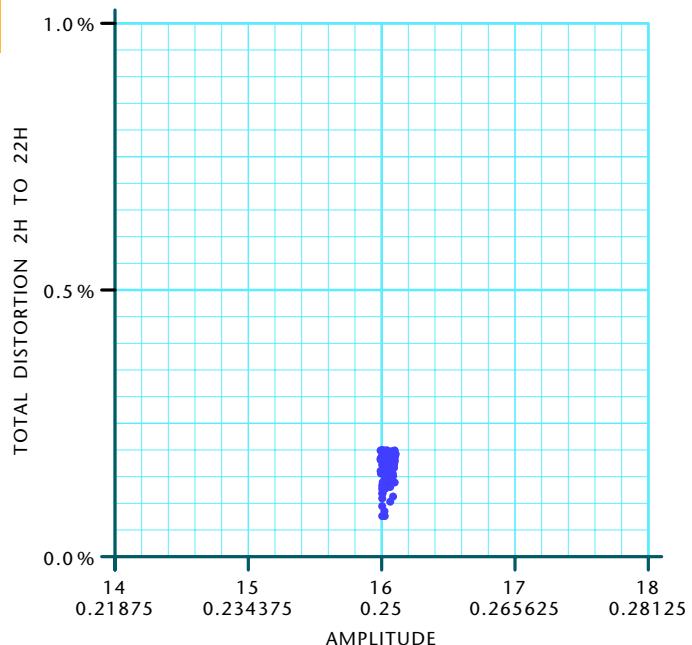
THREE PHASE MAGIC SINEWAVES

768D-24-22-2-16X

SUMMARY: This delta-friendly sequence combines low distortion with reasonable efficiency and has only a maximum of 24 transitions per quarter. Second order filtering is shown.

bits - trans - harms - filt - level

Level: 16 of 64
Bits in word: 768
Bits in quarter: 192
Controlled harmonics: 2 through 22nd
Filter: 2nd order Butterworth, F = 2.0
Maximum transitions: 24
Graph max distortion: 0.2%
Report max distortion: 0.11%
Unlikely exclusions: yes
Verify zero third: yes
Delta friendly: yes



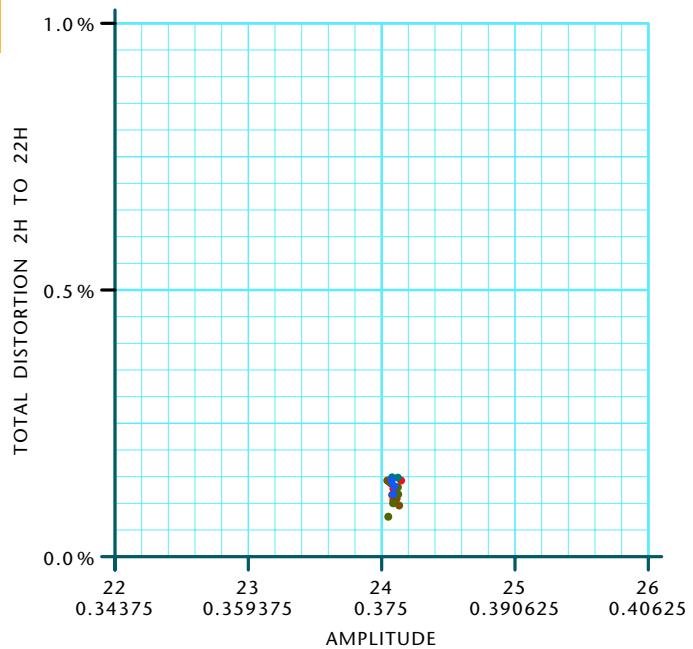
THREE PHASE MAGIC SINEWAVES

768D-24-22-2-24X

SUMMARY: This delta-friendly sequence combines low distortion with reasonable efficiency and has only a maximum of 24 transitions per quarter. Second order filtering is shown.

bits - trans - harms - filt - level

Level: 24 of 64
Bits in word: 768
Bits in quarter: 192
Controlled harmonics: 2 through 22 no
Filter: 2nd order Butterworth, F = 2.0
Maximum transitions: 24
Graph max distortion: 0.15%
Report max distortion: 0.08%
Unlikely exclusions: yes
Verify zero third: yes
Delta friendly: yes



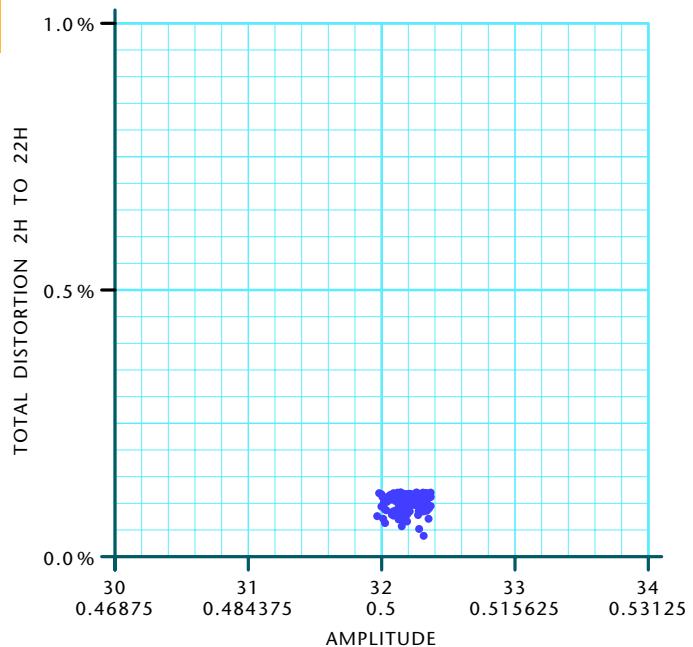
THREE PHASE MAGIC SINEWAVES

768D-24-22-2-32X

SUMMARY: This delta-friendly sequence combines low distortion with reasonable efficiency and has only a maximum of 24 transitions per quarter. Second order filtering is shown.

bits - trans - harms - filt - level

Level: 32 of 64
Bits in word: 768
Bits in quarter: 192
Controlled harmonics: 2 through 22nd
Filter: 2nd order Butterworth, F = 2.0
Maximum transitions: 24
Graph max distortion: 0.12%
Report max distortion: 0.06%
Unlikely exclusions: yes
Verify zero third: yes
Delta friendly: yes



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Amplitude: 0.504712    Power: 0.254734    Distortion: 0.057%    Transitions: 22    Jitter: 15.0%
One Patterns (start-length): 7-1 19-1 33-1 41-3 52-0 57-3 71-5 87-7 109-11 135-13 161-11 180-8
%00000000100000000000100000000000001000000011100000000000011100000000000111100000000000011111100
    0000000000000111111111100000000000000111111111110000000000001111111111100000000011111110000
Hexadecimal: $0100 1000 4070 0070 01F0 01FC 0007 FF00 01FF F000 7FF0 0FF0
H3 = 3.93655e-08    H5 = -4.44731e-05    H7 = -8.29283e-05    H9 = -2.46034e-09    H11 = 0.000362701
H13 = 0.000353232    H15 = 9.22628e-10    H17 = -0.000258708    H19 = -3.9427e-07

Amplitude: 0.509842    Power: 0.259939    Distortion: 0.039%    Transitions: 22    Jitter: 31.4%
One Patterns (start-length): 7-0 18-1 31-2 41-1 51-2 57-3 71-4 87-8 110-11 135-12 159-11 179-9
%00000000000000000000100000000000001000000000000100000000000000000000000000000000000000000000000000000
    00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
Hexadecimal: $0000 2001 8040 1870 01E0 01FE 0003 FF80 01FF E001 FFC0 1FF0
H3 = 7.79387e-08    H5 = -0.000155872    H7 = -4.40962e-05    H9 = -1.21779e-09    H11 = -0.000270648
H13 = -0.000217985    H15 = 1.52224e-10    H17 = 1.34125e-06    H19 = 0.000104567

Amplitude: 0.50877    Power: 0.258847    Distortion: 0.052%    Transitions: 20    Jitter: 28.0%
One Patterns (start-length): 3-0 10-0 21-2 32-1 45-2 54-4 74-7 96-9 118-7 131-7 149-12 173-13
%00000000000000000000100000000000000000000000000000000000000000000000000000000000000000000000000000000
    11111111000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
Hexadecimal: $0000 0600 8006 03C0 003F 8000 FF80 03F8 1FC0 07FF 8007 FFC0
H3 = -3.90515e-08    H5 = 0.000295139    H7 = 0.000268167    H9 = -6.10179e-10    H11 = 0.000156866
H13 = 4.57186e-05    H15 = 6.10179e-10    H17 = 0.000136763    H19 = 0.000276438

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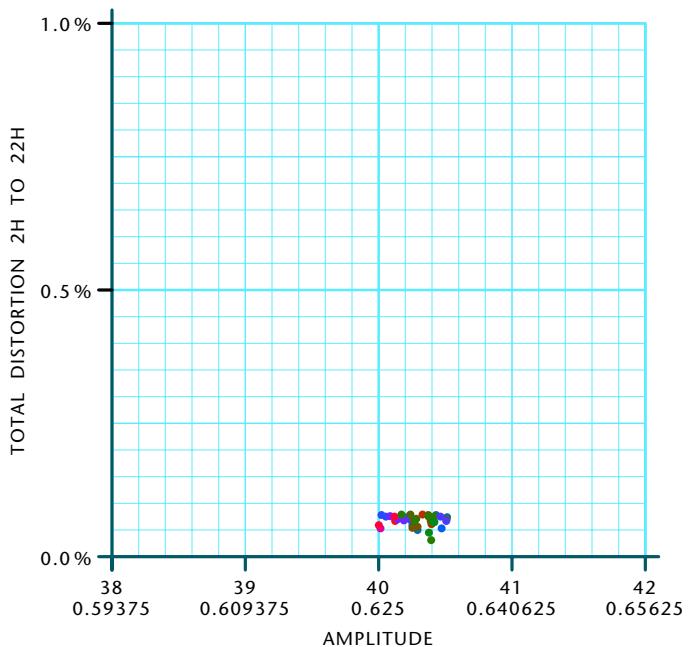
THREE PHASE MAGIC SINEWAVES

768D-24-22-2-40X

SUMMARY: This delta-friendly sequence combines low distortion with reasonable efficiency and has only a maximum of 24 transitions per quarter. Second order filtering is shown.

bits - trans - harms - filt - level

Level: 40 of 64
Bits in word: 768
Bits in quarter: 192
Controlled harmonics: 2 through 22nd
Filter: 2nd order Butterworth, F=2.0
Maximum transitions: 24
Graph max distortion: 0.08%
Report max distortion: 0.04%
Unlikely exclusions: yes
Verify zero third: yes
Delta friendly: yes



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Amplitude: 0.634845    Power: 0.403028    Distortion: 0.031%    Transitions: 22    Jitter: 39.3%
One Patterns (start-length): 4-0 13-1 20-1 31-1 41-4 55-4 73-10 97-10 115-9 132-10 148-12 169-18
%0000000000000010000001000000000100000000011110000000000111100000000000001111111111100000000000000
   011111111100000001111111100000001111111110000001111111111110000000011111111111111111111000000000000000
Hexadecimal: $0004 0801 0078 01E0 007F E000 7FE0 1FF0 OFFC 0FFF 007F FFE0
H3 = -4.69443e-08    H5 = -5.82656e-05    H7 = 0.000193516    H9 = -3.91202e-09    H11 = 2.4345e-05
H13 = 6.62081e-05    H15 = 3.66752e-10    H17 = -0.000202683    H19 = -0.000102249

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THREE PHASE MAGIC SINEWAVES

768D-24-22-2-48X

bits - trans - harms - filt - level

SUMMARY: This delta-friendly sequence combines low distortion with reasonable efficiency and has only a maximum of 24 transitions per quarter. Second order filtering is shown.

Level: 48 of 64

Bits in word: 768

Bits in quarter: 192

Controlled harmonics: 2 through 22nd

Filter: 2nd order Butterworth, F = 2.0

Maximum transitions: 24

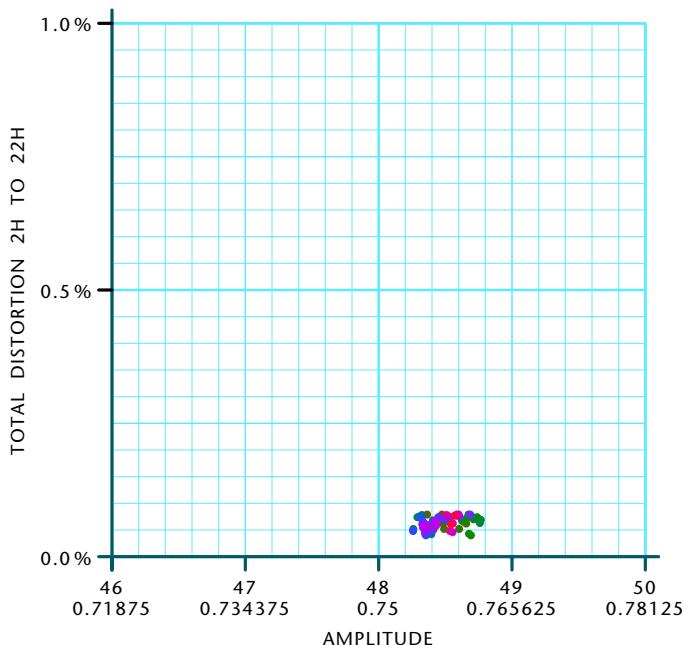
Graph max distortion: 0.08%

Report max distortion: 0.0455%

Unlikely exclusions: yes

Verify zero third: yes

Delta friendly: yes



THREE PHASE MAGIC SINEWAVES

768D-24-22-2-56X

bits - trans - harms - filt - level

SUMMARY: This delta-friendly sequence combines low distortion with reasonable efficiency and has only a maximum of 24 transitions per quarter. Second order filtering is shown.

Level: 56 of 64

Bits in word: 768

Bits in quarter: 192

Controlled harmonics: 2 through 22nd

Filter: 2nd order Butterworth, F=2.0

Maximum transitions: 24

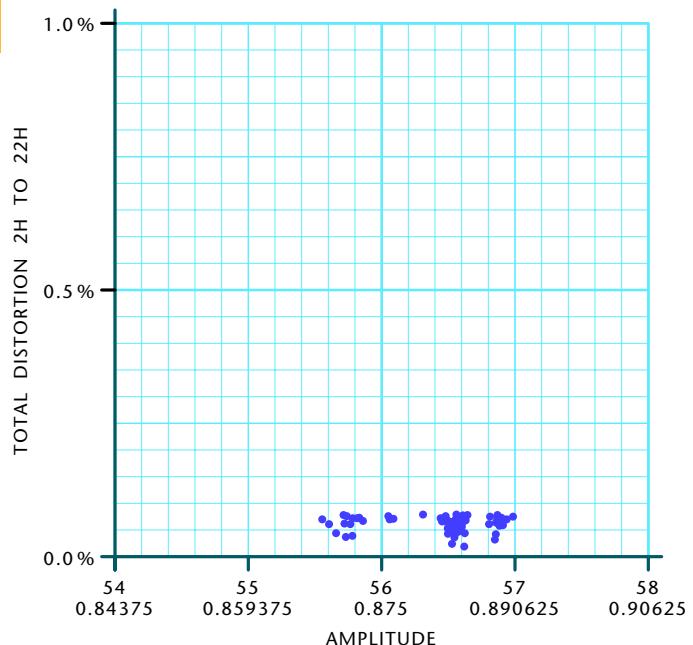
Graph max distortion: 0.08%

Report max distortion: 0.0415%

Unlikely exclusions: yes

Verify zero third: yes

Delta friendly: yes



Amplitude: 0.890158 Power: 0.79238 Distortion: 0.032% Transitions: 20 Jitter: 84.8%

One Patterns (start-length): 2-0 17-3 23-0 37-2 41-5 57-6 71-11 91-14 111-15 130-18 151-16 169-22
%0000000000000000011000000000000000110011110000000000111110000000011111111110000000011111
11111111000001111111111110001111111111111100111111111111100111111111111110011111111111111110

Hexadecimal: \$0000 7000 067C 007E 01FF C01F FF81 FFFC 3FFF F1FF FE7F FFFE

H3 = 5.57997e-08 H5 = 2.22697e-05 H7 = -8.70727e-05 H9 = -2.09249e-09 H11 = -0.000218749
H13 = 0.000197845 H15 = 5.23122e-10 H17 = -5.36502e-05 H19 = 7.7149e-05

Amplitude: 0.886058 Power: 0.785099 Distortion: 0.019% Transitions: 20 Jitter: 61.9%

One Patterns (start-length): 2-1 21-0 24-4 38-3 43-0 53-10 75-10 90-10 107-18 130-19 152-17 171-20
%001000000000000000000000111100000000001110000000000011111111100000000001111111110000011111
111100000011111111111111110000111111111111111100111111111111111001111111111111110011111111111111110

Hexadecimal: \$2000 00F0 0380 07FE 001F F83F F01F FFF8 3FFF F8FF FF9F FFFE

H3 = -1.12116e-08 H5 = -0.000124886 H7 = -1.99762e-05 H9 = 1.40145e-09 H11 = -9.06007e-05
H13 = 7.15118e-05 H15 = 7.00723e-10 H17 = -3.81334e-05 H19 = 9.01297e-05

Amplitude: 0.884741 Power: 0.782767 Distortion: 0.036% Transitions: 20 Jitter: 54.5%

One Patterns (start-length): 2-1 20-1 24-3 41-0 43-8 63-0 65-12 87-14 108-17 130-19 152-17 171-20
%0010000000000000000000001000110000000000000001111111100000000000001111111111111100000000000011111111
11111000000011111111111111110000111111111111111100111111111111111001111111111111110011111111111111110

Hexadecimal: \$2000 08E0 001F E000 7FF8 01FF F80F FFF8 3FFF F8FF FF9F FFFE

H3 = 4.49131e-08 H5 = 0.000341432 H7 = 9.26051e-06 H9 = -1.40353e-09 H11 = -1.48546e-05
H13 = 6.36911e-05 H15 = 1.75442e-10 H17 = -4.2634e-05 H19 = -8.84478e-05

Amplitude: 0.884416 Power: 0.782191 Distortion: 0.024% Transitions: 20 Jitter: 52.7%

One Patterns (start-length): 2-1 20-2 25-2 41-0 43-8 63-0 65-12 87-14 108-17 130-20 153-16 171-20
%00100000000000000000000011000110000000000000001111111100000000000001111111111111100000000000011111111

1111100000001111111111111111000011111111111111110011111111111111100111111111111111001111111111111110

Hexadecimal: \$2000 0C60 001F E000 7FF8 01FF F80F FFF8 3FFF FC7F FF9F FFFE

H3 = 4.49296e-08 H5 = -1.98083e-05 H7 = 8.52286e-05 H9 = -1.40405e-09 H11 = -1.93123e-05
H13 = 0.000214821 H15 = 1.75506e-10 H17 = 6.18098e-05 H19 = -2.83369e-05

Amplitude: 0.8702 Power: 0.757247 Distortion: 0.037% Transitions: 21 Jitter: -26.8%

One Patterns (start-length): 0-3 15-0 19-2 35-5 43-1 55-8 73-11 93-14 113-12 128-15 147-21 171-20
%11100000000000000000000011000000000000000111100010000000000111111100000000001111111111111100001111111111111110

Hexadecimal: \$E000 1800 1F10 01FE 007F F007 FFF0 7FF8 FFFF 1FFF FF1F FFFE

H3 = -2.28318e-08 H5 = -4.79268e-05 H7 = 0.000166064 H9 = 7.13494e-10 H11 = -0.000275448
H13 = 0.000112699 H15 = 1.24861e-09 H17 = -0.000103255 H19 = -9.69432e-05

THREE PHASE MAGIC SINEWAVES

768D-24-22-2-64X

SUMMARY: This delta-friendly sequence combines low distortion with reasonable efficiency and has only a maximum of 24 transitions per quarter. Second order filtering is shown.

bits - trans - harms - filt - level

Level: 64 of 64

Bits in word: 768

Bits in quarter: 192

Controlled harmonics: 2 through 22nd

Filter: 2nd order Butterworth, F = 2.0

Maximum transitions: 24

Graph max distortion: 0.14%

Report max distortion: 0.11%

Unlikely exclusions: yes

Verify zero third: yes

Delta friendly: yes

